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WHAT IS CLAIMED IS:

1. A program distribution device for distributing executable programs through a network to a client device having a tamper resistant processor which is provided with a unique secret key and a unique public key corresponding to the unique secret key in advance, the program distribution device comprising:

a first communication path set up unit configured to

10 set up a first communication path between the program

distribution device and the client device;

a second communication path set up unit configured to set up a second communication path directly connecting the program distribution device and the tamper resistant processor, on the first communication path;

an encryption processing unit configured to produce an encrypted program by encrypting an executable program to be distributed to the client device; and

a transmission unit configured to transmit the encrypted program to the tamper resistant processor through the second communication path.

- 2. The program distribution device of claim 1, further comprising:
- a user authentication unit configured to carry out authentication of a user who is using the client device, by using a user ID of the user received from the client device through the first communication path.
- 30 3. The program distribution device of claim 1, further comprising:

a processor authentication unit configured to carry out authentication of the tamper resistant processor, by verifying a certificate certifying that the tamper

35 resistant processor surely has the unique secret key and

the unique public key, which is received from the client device through the second communication path.

- 4. The program distribution device of claim 1, wherein the encryption processing unit encrypts the executable program by using the unique public key received from the tamper resistant processor through the second communication path.
- 10 5. The program distribution device of claim 1, wherein the encryption processing unit encrypts the executable program by using a common key, and encrypts the common key by using the unique public key received from the tamper resistant processor through the second communication path;

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the transmission unit transmits the encrypted program along with an encrypted common key to the tamper resistant processor through the second communication path.

- 20 6. The program distribution device of claim 1, wherein communications through the second communication path are cipher communications.
- 7. A client device for receiving programs distributed 25 from a program distribution device through a network, the client device comprising:

a tamper resistant processor which is provided with a unique secret key and a unique public key corresponding to the unique secret key in advance;

a first communication path set up unit configured to set up a first communication path between the program distribution device and the client device;

a second communication path set up unit configured to set up a second communication path directly connecting the 35 program distribution device and the tamper resistant processor, on the first communication path; and a program receiving unit configured to receive an encrypted program from the program distribution device through the second communication path.

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- 8. The client device of claim 7, further comprising:
 a user authentication unit configured to carry out
 authentication of a user who is using the client device
 with respect to the program distribution device, by
 transmitting a user ID of the user to the program
 distribution device through the first communication path.

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- 10. The client device of claim 7, wherein the program receiving unit receives the encrypted program which is encrypted by using the unique public key notified from the tamper resistant processor to the program distribution device through the second communication path.
- 11. The client device of claim 7, wherein the program receiving unit receives the encrypted program which is encrypted by using a common key, and an encrypted common key which is encrypted by using the unique public key notified from the tamper resistant processor to the program distribution device through the second communication path.
- 12. The client device of claim 7, wherein communications35 through the second communication path are cipher

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communications.

13. A program distribution system, comprising:

a program distribution device connected to a network, for distributing executable programs through the network; and

a client device connected to the network, for receiving the executable programs distributed from the program distribution device through the network;

10 wherein the client device has:

a tamper resistant processor which is provided with a unique secret key and a unique public key corresponding to the unique secret key in advance;

a client side first communication path set up unit configured to set up a first communication path between the program distribution device and the client device;

a client side second communication path set up unit configured to set up a second communication path directly connecting the program distribution device and the tamper resistant processor, on the first communication path; and

a program receiving unit configured to receive an encrypted program from the program distribution device through the second communication path;

and the program distribution device has:

a server side first communication path set up unit configured to set up the first communication path between the program distribution device and the client device;

a server side second communication path set up unit configured to set up the second communication path directly connecting the program distribution device and the tamper resistant processor, on the first communication path;

an encryption processing unit configured to produce the encrypted program by encrypting an executable program to be distributed to the client device; and

a transmission unit configured to transmit the

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encrypted program to the tamper resistant processor through the second communication path.

14. A method for distributing executable programs through a network from a program distribution device to a client device having a tamper resistant processor which is provided with a unique secret key and a unique public key corresponding to the unique secret key in advance, the method comprising the steps of:

setting up a first communication path between the program distribution device and the client device;

setting up a second communication path directly connecting the program distribution device and the tamper resistant processor, on the first communication path;

producing an encrypted program by encrypting an executable program to be distributed to the client device, at the program distribution device; and

transmitting the encrypted program from the program distribution device to the tamper resistant processor through the second communication path.

15. The method of claim 14, further comprising the step of:

carrying out authentication of a user who is using the client device, by using a user ID of the user received from the client device through the first communication path.

16. The method of claim 14, further comprising the step of:

arrying out authentication of the tamper resistant processor, by verifying a certificate certifying that the tamper resistant processor surely has the unique secret key and the unique public key, which is received from the client device through the second communication path.

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17.	The met	hod of	claim 14,	wherein	the pro	oducing	step
encry	pts the	executa	ble progr	am by usi	ing the	unique	public
key r	eceived	from th	e tamper	resistant	t proces	ssor thi	ough
the s	econd co	ommunica	tion path	ı .			

18. The program distribution device of claim 1, wherein the producing step encrypts the executable program by using a common key, and encrypts the common key by using the unique public key received from the tamper resistant processor through the second communication path; and

the transmitting step transmits the encrypted program along with an encrypted common key to the tamper resistant processor through the second communication path.

15 19. The method of claim 14, wherein communications through the second communication path are cipher communications.

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